

Installation

- 1 Before installation, confirm that the voltage and capacity of the new battery match the requirements and needs of with the golf cart, and ensure that the battery is turned off, prior to installation.
- 2 Confirm that the dimensions and weight of new battery conform to the use specifications.
- 3 Place the golf cart on flat ground, turn off the main power switch, and pull the handbrake.
- 4 Open the cover plate of the golf cart battery holder, remove all wires connected to the battery positive/negative, fixing plate, screws, etc. in a safe manner (consistent with any manufacturer's suggested procedures), then take the old battery out and place it on flat ground.
- 5 Fix the new battery support onto the base of the battery box, place the new battery in the box steadily, and fix it onto the support.
- 6 Connect the positive and negative terminal between the battery and golf cart. Connect the battery level meter and fix it in the appropriate position on the golf cart. Keep the battery switch key (button) pressed for three seconds to open the battery system, then close the cover plate of the battery holder.
- 7 Turn on the main power switch of the golf cart and check whether the lights, horn, walking and other functions are normal.



*Note:

If the equipment is handled manually, make good preparations for load bearing to protect against bruises or sprains. In the handling process, strictly follow local load-bearing codes for workers and choose appropriate personnel or machines for handling.

- DO NOT put a wrench or other metal object across the terminal blocks of the battery during operation.
- DO NOT connect the battery positive and negative in reverse or cause a short circuit.
- DO NOT allow multiple workers to operate simultaneously.
- DO NOT touch the battery positive and negative simultaneously (this can cause personal injury).

Safety Instructions

Please read this Guide and follow the safety precautions and the warning signs on the product before installation, operation, or maintenance. Installation should be conducted by professionals only. Before changing any connections or conducting maintenance, shut the system down and check for hazardous voltage. BATTLite shall bear no liability arising from any breach of the general requirements for operational safety or any violation of the safety standards for battery design, production, and use. In the course of normal use, check the positive/negative terminal and harness for indications of overheating or melting on a frequent periodic basis. Should that happen, please inform our after-sales service personnel immediately.

Warranty Terms

- 1 Please disconnect the positive/negative terminal and stop use immediately if the battery cannot be used normally to protect it against irreversible damage due to over-discharge, or else the product will be excluded from the scope of warranty.
- 2 The battery must be recharged with the matched charger. Please ask RoyPow after-sales service personnel if any charger made by another company can be used for charging. A battery damaged by being recharged with an unmatched charger will be excluded from the scope of warranty.
- 3 Damage to the battery, system components or property due to incorrect or improper installation will exclude the product from the scope of warranty.
- 4 Please avoid short circuit or reverse polarity connection. Damage due to incorrect connection will exclude the product from the scope of warranty.
- 5 Use beyond the specification parameters of the battery system will exclude the product from the scope of warranty.
- 6 Do not modify the AC or DC connection of the charger. All equipment problems caused by a modified AC or DC connection will exclude the product from the scope of warranty.



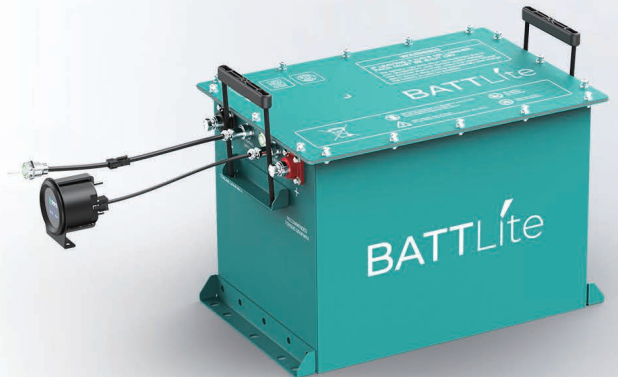
Warning

1. In the process of battery handling and installation, the following personal safety devices are recommended to prevent accidental injury: a safety helmet, safety goggles, protective shoes, and other safety equipment commensurate with the work being performed.
2. During the handling of any wiring, insulated tools and insulating gloves should be worn to avoid electric shock.
3. DO NOT touch the contacts in the positive/negative terminal of the battery, even when it is turned off.
4. In case of fire, the use of a dry powder extinguisher is recommended. Electric shock may occur if a fluid extinguisher is used.
5. Only approved accessories should be used. DO NOT connect an incompatible charger.
6. The battery system should be kept in a dry environment with a relative humidity between 5–95%RH. The battery should always be kept away from heat sources and exposure to sparks. DO NOT open the top cover of the battery without authorization.

BATTLite

Golf Cart Battery System

Quick Start Guide



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technology

Battery Installation Diagram

- 1 Turn off the main power switch and pull the handbrake.
- 2 Open the cover plate of the battery holder, remove the wires and take the old battery out.
- 3 Secure the support, place the new battery and fix it onto the support.
- 4 Connect the positive and negative terminal between the battery and golf cart.

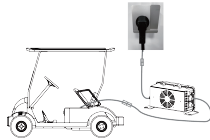
***Note:** In case of new golf cart installation, open the cover plate of the battery holder, place the battery, connect the positive and negative connectors, and close the cover plate.

Battery Use Instruction

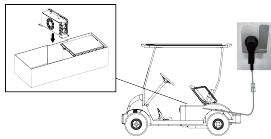
Battery system charging

Operating temperature for charging: 32–131°F (0–55°C)

Charging diagram of off-board charger:



Charging diagram of on-board charger:



- 1 Before charging, ensure that the charger model is matched with the battery voltage and current.
- 2 Power off the golf cart, satisfy the relevant safety works and turn off the battery.
- 3 Connect the positive and negative terminals of the golf cart battery to the charger connector (skippable if on-board charger has been installed).
- 4 Connect the power cord of the charger to the power grid. The battery system will start charging automatically. Check whether the fuel gauge lights up the screen.

*Note:

At the end of charging, Always cut off the AC power of the charger before disconnecting the connecting plug between the charger and battery.

When the battery is not used for 7 days, the battery system will enter a dormant state. You can wake up the battery by charging it again or pressing the power button.

Battery system discharge

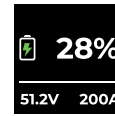
Operating temperature for discharge: -4–131°F (-20–55°C)

- 1 Connect the positive and negative terminal between the battery and the golf cart correctly when the battery is turned off.
- 2 Keep the battery switch key (button) pressed for three seconds to start the battery system. Check that the battery fuel gauge is on and indicates the remaining capacity, voltage, and current, and there is no alarm.

Battery fuel gauge



Boot interface



Main interface

- 1 Display "Communication Disconnected" when the communication of the fuel gauge is lost.
- 2 In the event of a battery fault, a fault code will be displayed at the upper right of the main interface of the fuel gauge.
- 3 When the battery SOC is lower than 15%, the SOC value will be flashing.

Status	Sound frequency	Duration	Description
SOC < 20%	Rapid	10 Sec	Charge the battery in time due to low battery level
SOC < 10%	Rapid	20 Sec	Charge the battery in time due to low battery level
Fault	Slow	20 Sec	Perform immediate troubleshooting



***Note:** For more information or troubleshooting instructions, refer to the fuel gauge's instruction manual.

Storage

- 1 Please place the battery in a dry well-ventilated room at a temperature of -4–113°F (-20–45°C) for short-term storage (within 1 month), and place it in a dry well-ventilated room at a temperature of 32–95°F (0–35°C) for long-term storage (within 1 year).
- 2 DO NOT place it near any corrosive material, fire, or heat sources.
- 3 To avoid over-discharge during long-term storage, the power supply must be turned off and the SoC value must be kept above 60%.
- 4 If the battery will not be used for a long time, please turn off the battery system to reduce power consumption and extend the single retention time. Please recharge it every six months.

Common faults and solutions

Symptoms	Possible cause	Solution
Startup/shutdown cannot be done by pressing the key	Damaged button	Inform the after-sales service personnel and replace the button
	BMS issue	Inform the after-sales service personnel and replace the BMS
Power outage down a slope	Excessive feedback	Do not use at the top of a slope when fully charged, or inform the after-sales service personnel
Charging fails	Charger sends fault alarm	Turn the charger power off completely and restart; if the fault cannot be remedied, inform the after-sales service personnel
	BMS issue	Restart the battery system; if the fault cannot be remedied, inform the after-sales service personnel
	Loose connection of charging terminal	Reconnect the charging terminal
	Abnormal operating temperature	Check whether the operating environment temperature meets the battery operating temperature requirements
Low charging current	Excess temperature, charging current is restricted	Use in high and low temperature environments; low charging current is normal.
	Low battery	Use after charging
Discharging fails	Abnormal operating temperature	Check whether the operating environment temperature meets the battery operating temperature requirements
	Loose discharge terminal connection	Tighten the discharge terminal
	BMS hardware issue	Inform the after-sales service personnel and replace the BMS

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